

Technical Bulletin # 840C

Bulletin Description

This bulletin compares the physical characteristics and the product information of the three chocking compounds offered by ITW Philadelphia Resins. This information is presented in a side-by-side format to make the selection the right chocking compound for the job faster and easier.

Physical Properties

	CHOCKFAST® BLACK	CHOCKFAST® ORANGE	CHOCKFAST® GRAY
RELEVANT TECHNICAL BULLETIN	666	659	656
COMPRESSIVE STRENGTH ASTM D-695	119 MPa (17,300 psi)	131 MPa (19,000 psi)	110 MPa (16,000 psi)
COMPRESSIVE MODULUS OF ELASTICITY ASTM D-695	5517 Mpa (800,000 psi)	3675 MPa (533,000 psi)	3586 Mpa (520,000 psi)
LINEAR SHRINKAGE ASTM D-2566	0.00018 mm/mm (0.00018 in/in)	0.0002 mm/mm (0.0002 in/in)	0.0003 mm/mm (0.0003 in/in)
COEFFICIENT OF LINEAR THERMAL EXPANSION ASTM D-696 0°C-60°C (32°F-140°F)	27.0 X 10 ⁻⁶ /C° (15.0 X 10 ⁻⁶ /F°)	30.8 X 10 ⁻⁶ /C° (17.1 X 10 ⁻⁶ /F°)	30.8 X 10 ⁻⁶ /C° (16.8 X 10 ⁻⁶ /F°)
FLEXURAL STRENGTH ASTM C-580	42.7 MPa (6,200 psi)	52.5 MPa (7,615 psi)	
FLEXURAL MODULUS OF ELASTICITY ASTM C-580	9930 MPa (1.4 X 10 ⁶ psi)	5930 MPa (8.6 x 10 ⁵ psi)	
TENSILE STRENGTH ASTM D-638	20 MPa (2,900 psi)	34.2 MPa (4,970 psi)	27.5 MPa (4,000 psi)
HARDNESS ASTM D-256	55 BARCOL	40-45 BARCOL	35-40 BARCOL
IZOD IMPACT STRENGTH ASTM D-256	0.023 N.m/mm (5.1 in lb/in)	0.027 N.m/mm (6 in lb/in)	0.032 N.m/mm (7.2 in lb/in)
FIRE RESISTANCE ASTM D-635	Self Extinguishing	Self Extinguishing	Self Extinguishing
SERVICE TEMPERATURE			
MAXIMUM POUR DEPTH	62 mm (2-1/2 in)	100 mm (4 in)	50 mm (2 in)
SPECIFIC GRAVITY	1.94	1.58	1.82

Product Information

COVERAGE	4.34L 265 in ³	120/260 in ³	13.37/3.06L 816/187 in ³
APPLICATION			
TEMPERATURE			
CURE TIME (approximate)			
POT LIFE @ 21°C (70°F)	45 minutes	25-30 minutes	30-40 minutes
CLEAN UP			
PACKAGING per Unit			
UNIT WEIGHT			
SHELF LIFE			

NOTE: The physical properties quoted above are for laboratory prepared specimens. Tests on specimens from a job site may not be identical.

Reference

For design considerations and application details please request Bulletin No. 642 or contact ITW Philadelphia Resins' Engineering Services Department.

Date

09/2005

<p>General: Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner.</p> <p>Warranty: ITW Philadelphia Resins, a division of Illinois Tool Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment.</p> <p>Warranty Claims: If any product fails to meet the above, ITW Philadelphia Resins will, at its option, either replace the product or refund the purchase price. ITW Philadelphia Resins will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered.</p> <p>Disclaimer: ITW Philadelphia Resins makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose.</p>	<p>Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Philadelphia Resins' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Philadelphia Resins' election. Under no circumstances shall ITW Philadelphia Resins be liable for any indirect, incidental or consequential damages.</p> <p>Modification of Warranty: No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Philadelphia Resins. No term of any purchase order shall serve to modify any provision of this document.</p> <p>Mediation and Arbitration: If any dispute arises relating to products or product warranties, either the purchaser or ITW Philadelphia Resins may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.</p>
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